



Australian Government

MSFFT5010 Develop products and related processes

Release: 1

MSFFT5010 Develop products and related processes

Modification History

Release 1 - New unit of competency

Application

This unit of competency covers defining requirements, confirming feasibility, developing and trialling options, and analysing and reporting on proposed products and related processes. It may involve original creation, adaptation of designs or interpretation of sketches within contexts related to single or multiple production runs.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Competency Field

Unit Sector

Furnishing Technology

Elements and Performance Criteria

Elements describe the essential outcomes.		Performance criteria describe the performance needed to demonstrate achievement of the element.	
1	Assess product feasibility	1.1	Provisional specifications are identified and interpreted in consultation with others, where required
		1.2	Provisional specifications are subject to feasibility modelling and analysis
		1.3	Recommendations from the feasibility study are processed
2	Participate in developing and engineering prototype product	2.1	Product or process specifications are interpreted and/or preliminary specifications are developed from the feasibility study
		2.2	Specifications are used to develop or engineer the prototype product
		2.3	Results are analysed and decisions to move to a trial are confirmed

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| 3 | Conduct trials | 3.1 | Trial procedures/parameters are established and recorded |
| | | 3.2 | Organisation and liaison issues with production areas are resolved |
| | | 3.3 | Raw materials are checked or selected and machines and skill availability allocated against requirements |
| | | 3.4 | Trials are carried out in accordance with the established procedures |
| 4 | Analyse, interpret and report results | 4.1 | Results of the trials are analysed to determine performance and acceptability for production |
| | | 4.2 | Variations and improvements necessitated by the findings are recorded and/or trialled |
| | | 4.3 | Reports and recommendations are prepared and processed in accordance with enterprise procedures |

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency. Detail on appropriate performance levels for each furnishing unit of competency in reading, writing, oral communication and numeracy utilising the Australian Core Skills Framework (ACSF) are provided in the Furnishing Training Package Implementation Guide.

Range of Conditions

Specifies different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. Range is restricted to essential operating conditions and any other variables essential to the work environment.

Unit context includes:

- work health and safety (WHS) requirements, including legislation, building codes, material safety management systems, hazardous and dangerous goods codes, and local safe operating procedures or equivalent
- work is carried out in accordance with legislative obligations, environmental legislation, relevant health regulations, manual handling procedures and organisation insurance requirements
- work requires individuals to demonstrate conceptual and analytical ability, discretion, judgement and problem

	solving
Activities include:	• customers or suppliers may be internal or external • work allocation • reviewing/evaluating processes and products • liaising with relevant personnel, client and/or other functional areas
Work responsibilities will vary in scope according to:	• size of the workplace • range of designs • specialisation in the workplace and workplace quality standards
Personal protective equipment includes:	• that prescribed under legislation, regulations and enterprise policies and practices
Information and procedures include:	• work specifications • provisional product specifications and design brief • provisional marketing strategies • organisation work specifications and requirements • legislation, regulations and codes of practice • quality and Australian Standards and procedures

Unit Mapping Information

Supersedes and is equivalent to LMFFT5013B Develop products and related processes.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>

Assessment Requirements for MSFFT5010 Develop products and related processes

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Performance Evidence

- Collect, organise and understand information related to furnishing work instructions and work orders and safety procedures
- Apply safe handling requirements for equipment, products and materials, including use of personal protective equipment
- Identify materials used in the work process
- Follow work instructions, operating procedures and inspection processes to:
 - minimise the risk of injury to self or others
 - prevent damage to goods, equipment and products
 - maintain required production output and product quality
- Develop a significant product and related processes, either individually or as part of a multi-disciplinary team, and:
 - interpret/develop specifications
 - conduct feasibility studies
 - produce prototype
 - organise/conduct trials
 - assess results against specifications
 - communicate effectively with development team and customers
 - prepare reports/presentations
- Use mathematical ideas and techniques to correctly complete measurements, calculate area and estimate material requirements
- Lead others and work effectively to improve production quality and outcomes
- Communicate ideas and information to enable confirmation of work requirements and specifications and the reporting of work outcomes and problems, interpret basic plans and follow safety procedures
- Use workplace technology related to the coordination, including communication equipment, time and management aids and other measuring devices
- Avoid backtracking, work flow interruptions or wastage
- Work with others and in a team by recognising dependencies and using cooperative approaches to optimise work flow and productivity and encourage participation of employees in the planning of work activities and changes

Knowledge Evidence

- Intellectual property obligations and codes of practice

- Products and process development processes and procedures
- Team management and coordination processes
- Recording and reporting processes (as they may apply in the enterprise)
- Safety and environmental aspects of relevant enterprise activities
- Technical background relevant to the sector

Assessment Conditions

- Assessors must:
 - hold training and assessment competencies as determined by the National Skills Standards Council (NSSC) or its successors
 - have vocational competency in the furnishing industry at least to the level being assessed with broad industry knowledge and experience, usually combined with a relevant industry qualification
 - be familiar with the current skills and knowledge used and have relevant, current experience in the furnishing industry.
- Assessment methods must confirm consistency of performance over time rather than a single assessment event and in a range of workplace relevant contexts.
- Assessment must be by observation of relevant tasks with questioning on underpinning knowledge and, where applicable, multimedia evidence, supervisor's reports, projects and work samples.
- Assessment is to be conducted on single units of competency or in conjunction with other related units of competency. Foundation skills are integral to competent performance in the unit and should not be assessed separately.
- Assessment must occur on the job or in a workplace simulated facility with relevant process, equipment, materials, work instructions and deadlines.
- Access is required to information on work specifications, quality standards, organisation procedures and customer requirements.

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